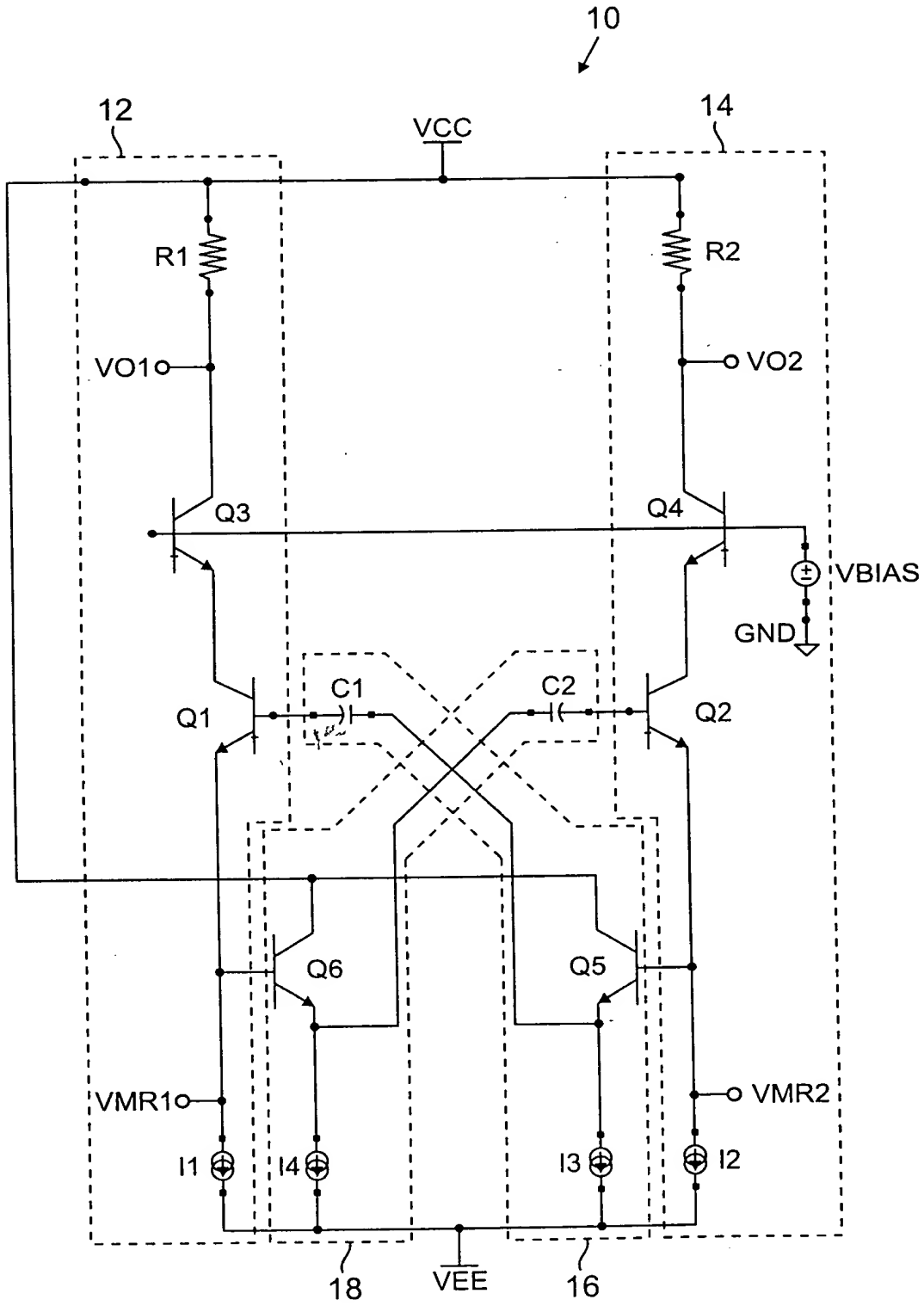

10
12
14
VCC
R1
R2
VO1
VO2
Q3
Q4
VBIAS
GND
C1
C2
Q1
Q2
Q6
Q5
VMR1
VMR2
I1
I4
I3
I2
18
VEE
16

FIG. 1

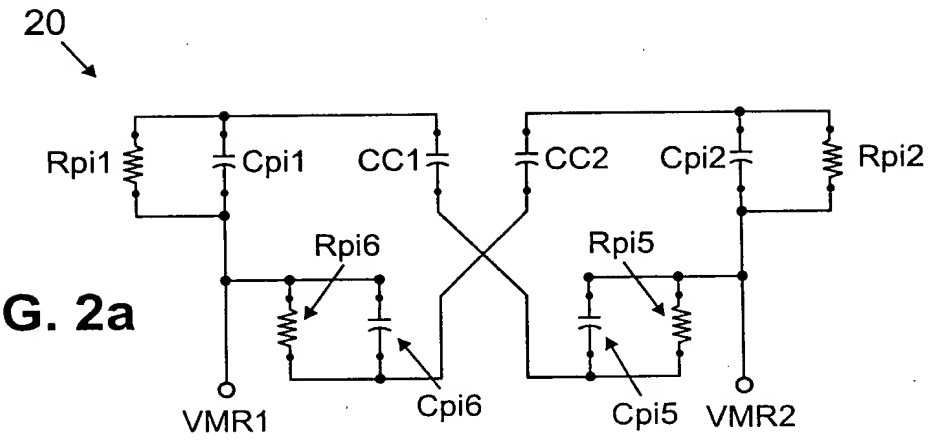
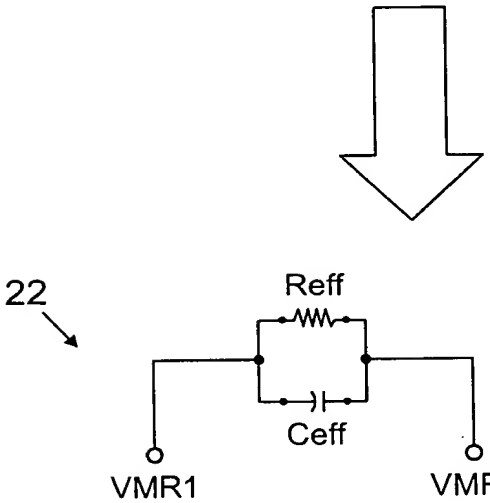


FIG. 2a

EQUIVALENT INPUT CIRCUIT

CC1 >> Cpi1 & CC1 >> Cpi2
CC2 >> Cpi1 & CC2 >> Cpi2
CC1 >> Cpi5 & CC1 >> Cpi6
CC2 >> Cpi5 & CC2 >> Cpi6



Reff = Re ll Rpi1 ≃ Re
Ceff = (3*Cpi1)/2

SIMPLIFIED CIRCUIT

FIG. 2b

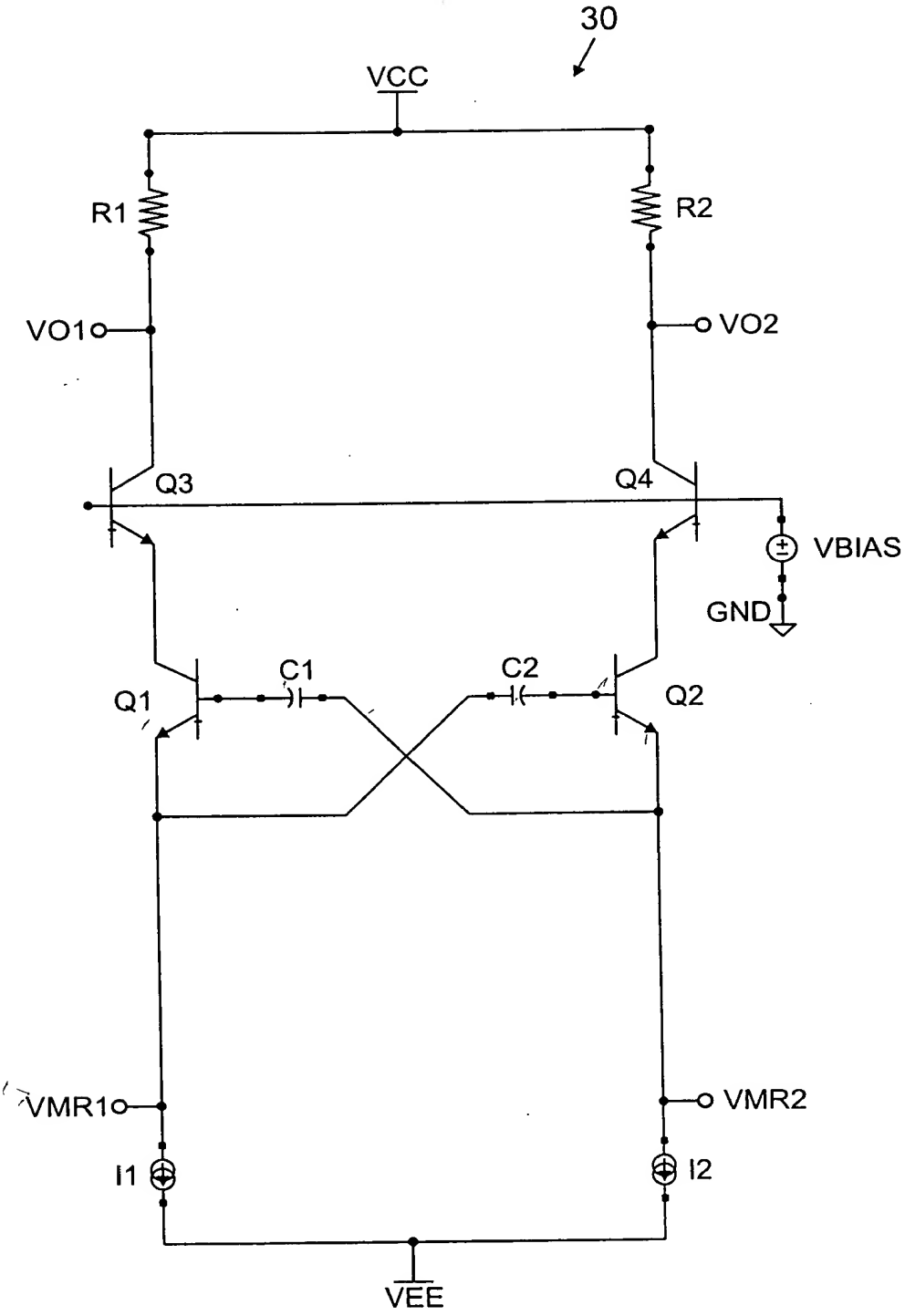


FIG. 3
(PRIOR ART)

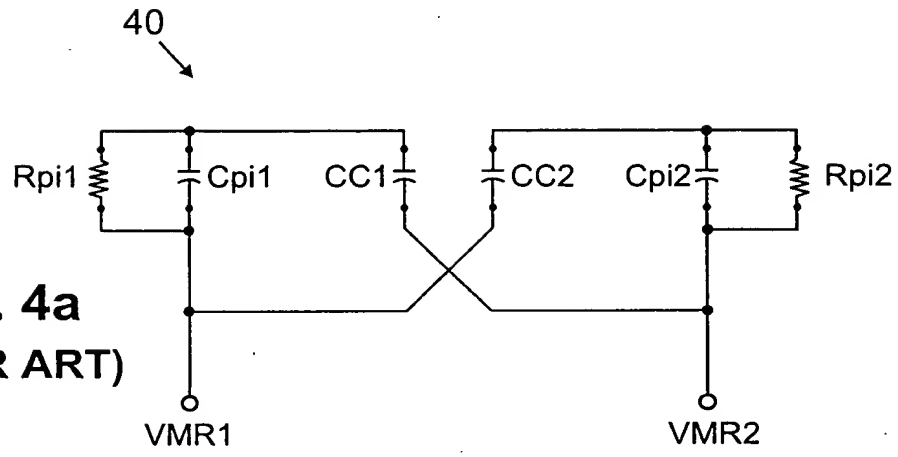
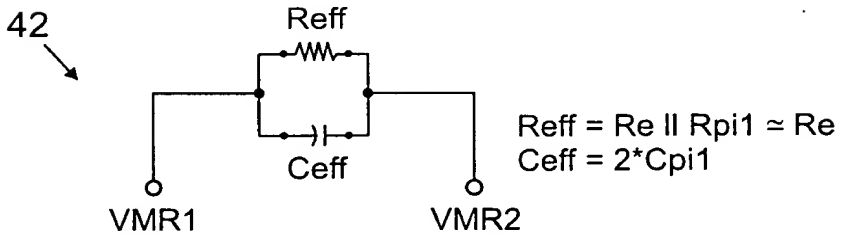


FIG. 4a
(PRIOR ART)

EQUIVALENT INPUT CIRCUIT

CC1 >> Cpi1 & CC1 >> Cpi2
CC2 >> Cpi1 & CC2 >> Cpi2



SIMPLIFIED CIRCUIT

FIG. 4b
(PRIOR ART)

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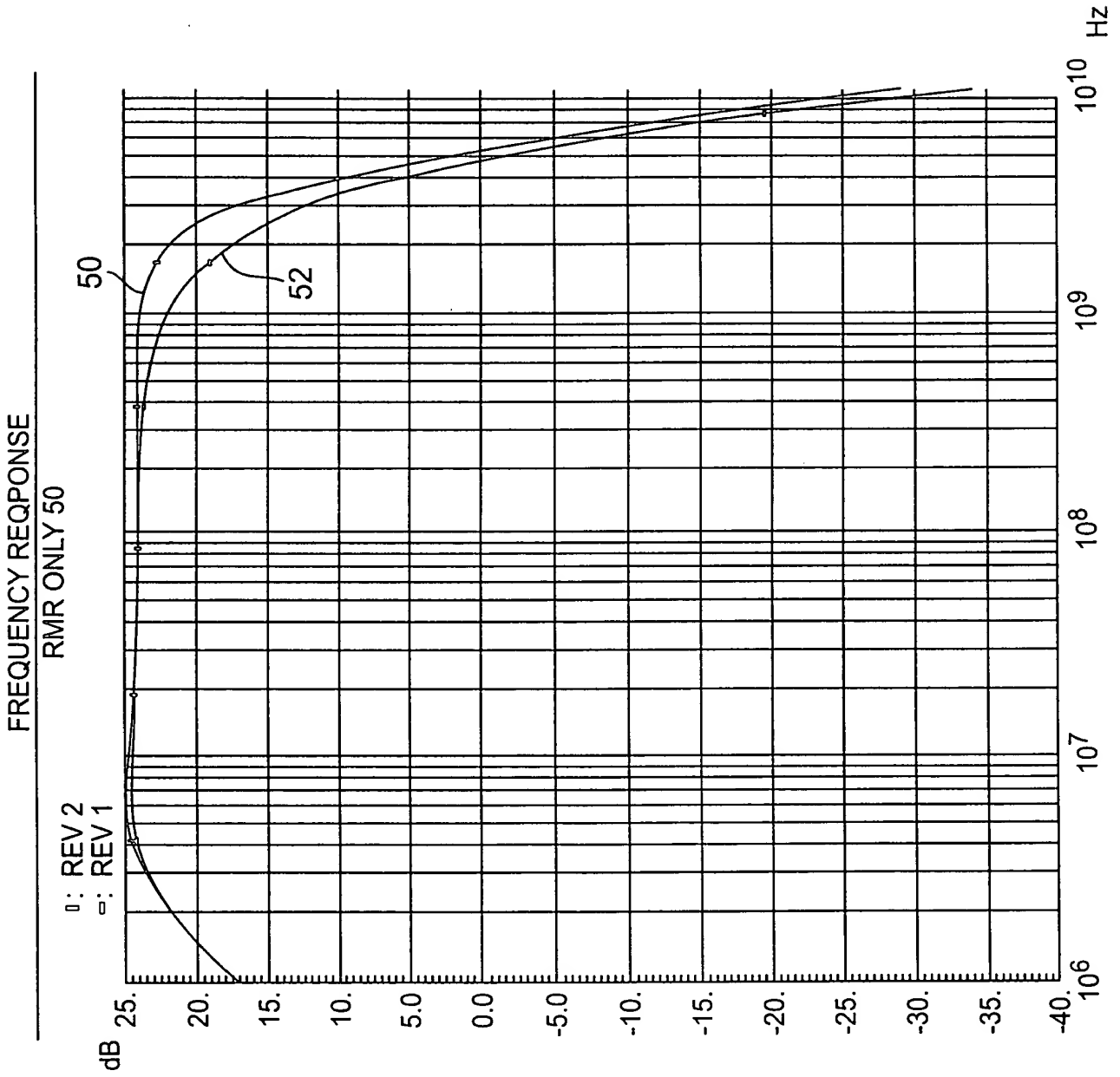
FREQUENCY REQPONSE
RMR ONLY 50
□: REV 2
▭: REV 1
50
52
dB
25.
20.
15.
10.
5.0
0.0
-5.0
-10.
-15.
-20.
-25.
-30.
-35.
-40.
10^6
10^7
10^8
10^9
10^{10}
Hz

FIG. 5

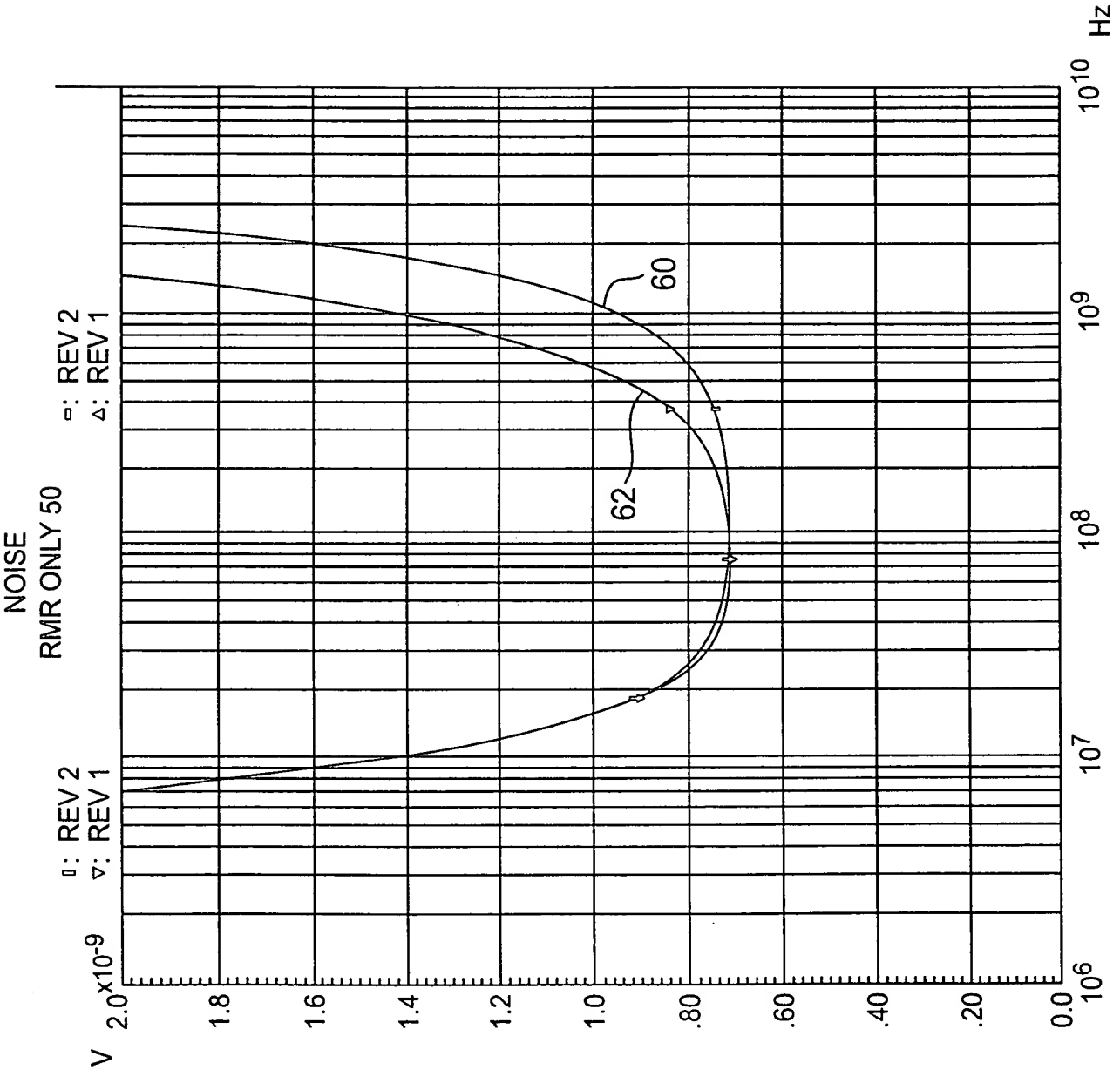
NOISE
RMR ONLY 50
□: REV 2
▽: REV 1
□: REV 2
△: REV 1
60
62
V
2.0x10-9
1.8
1.6
1.4
1.2
1.0
.80
.60
.40
.20
0.0
10^6
10^7
10^8
10^9
10^10
Hz

FIG. 6